

802-002

Y24

FIG. 1A

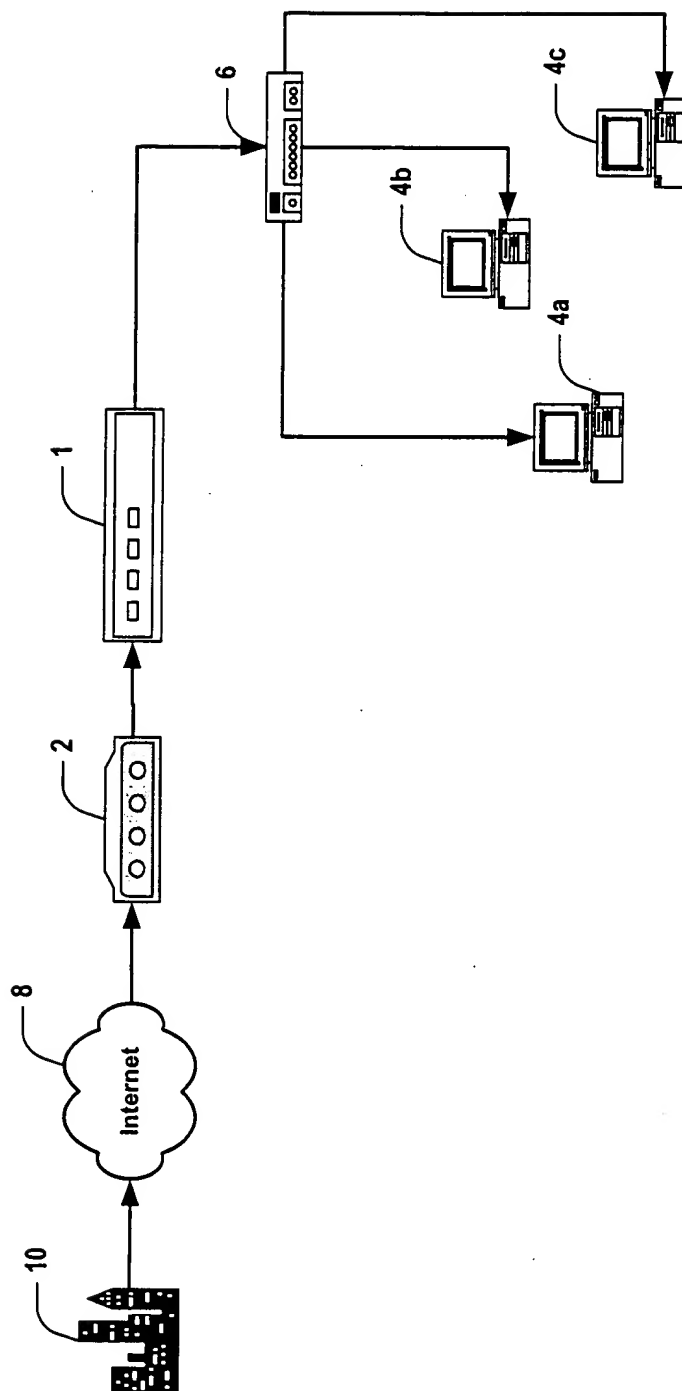
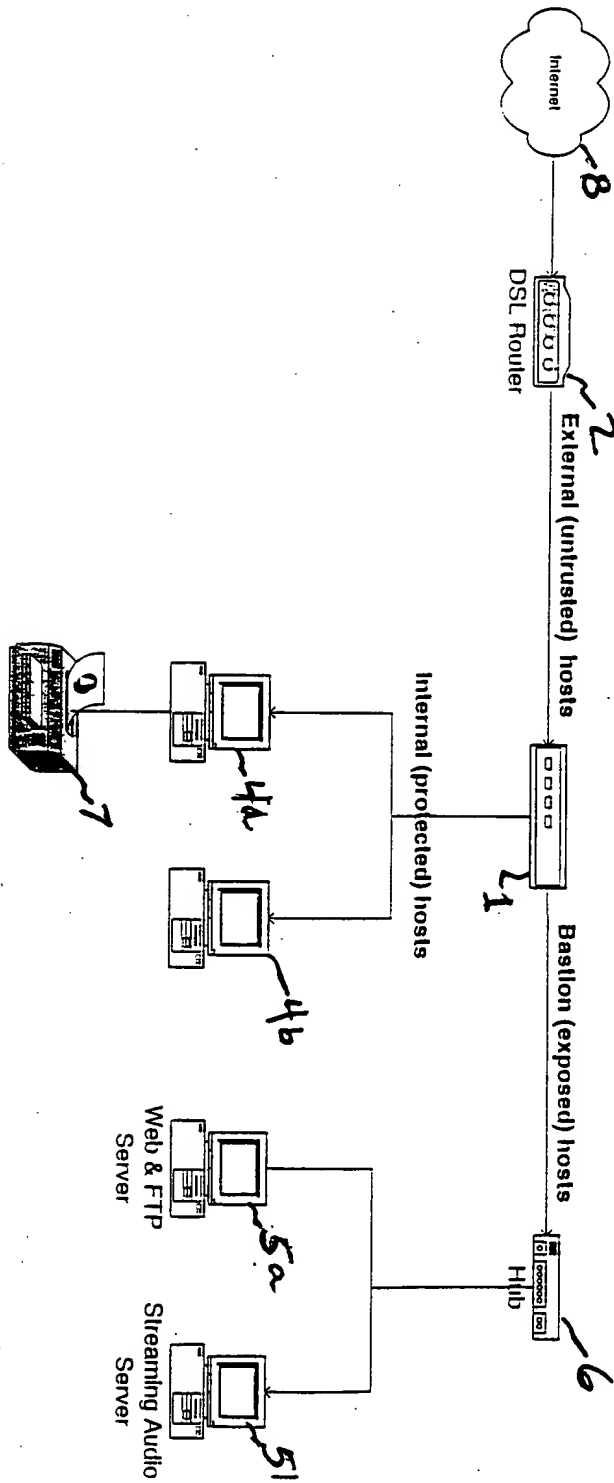
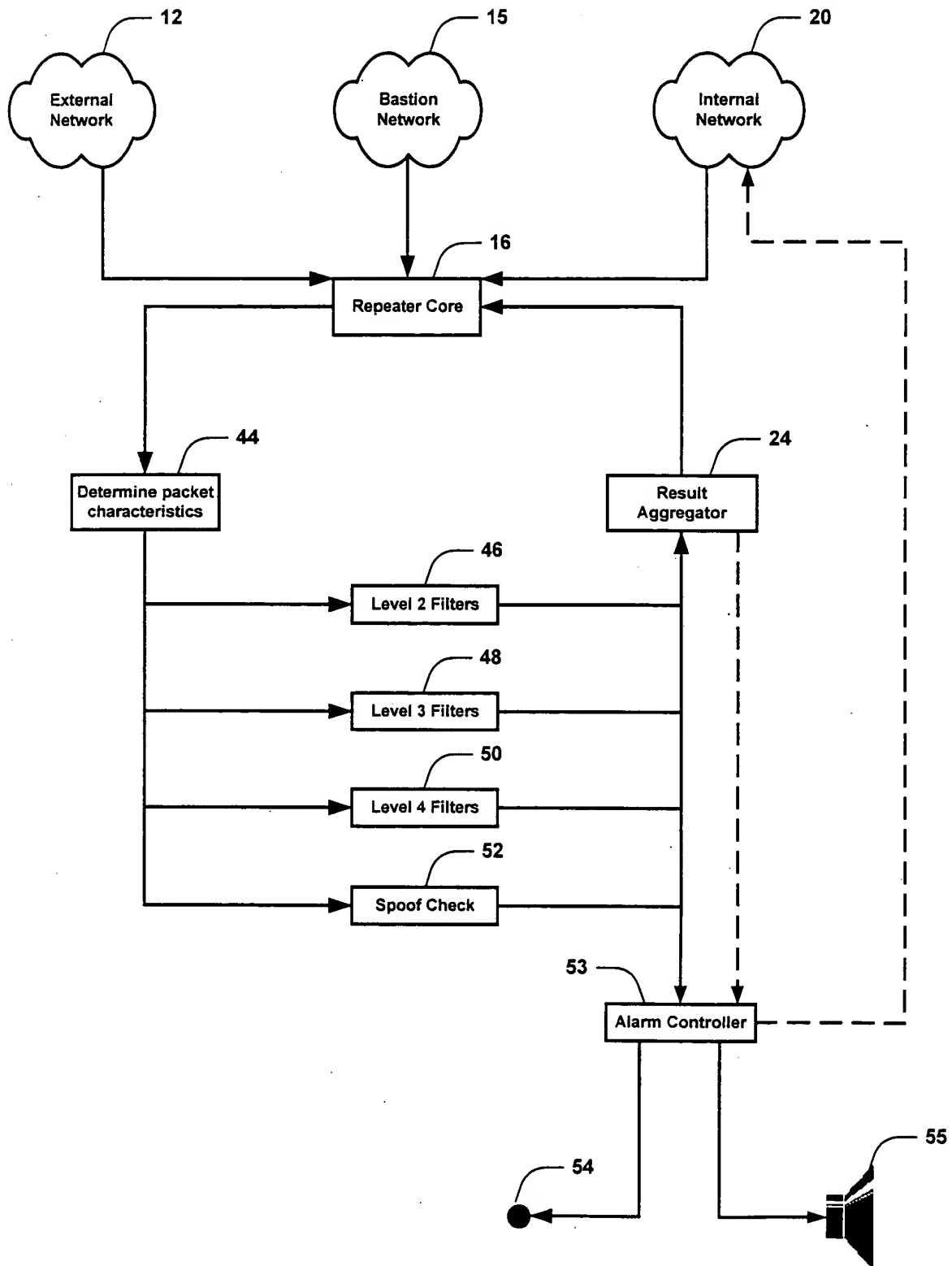


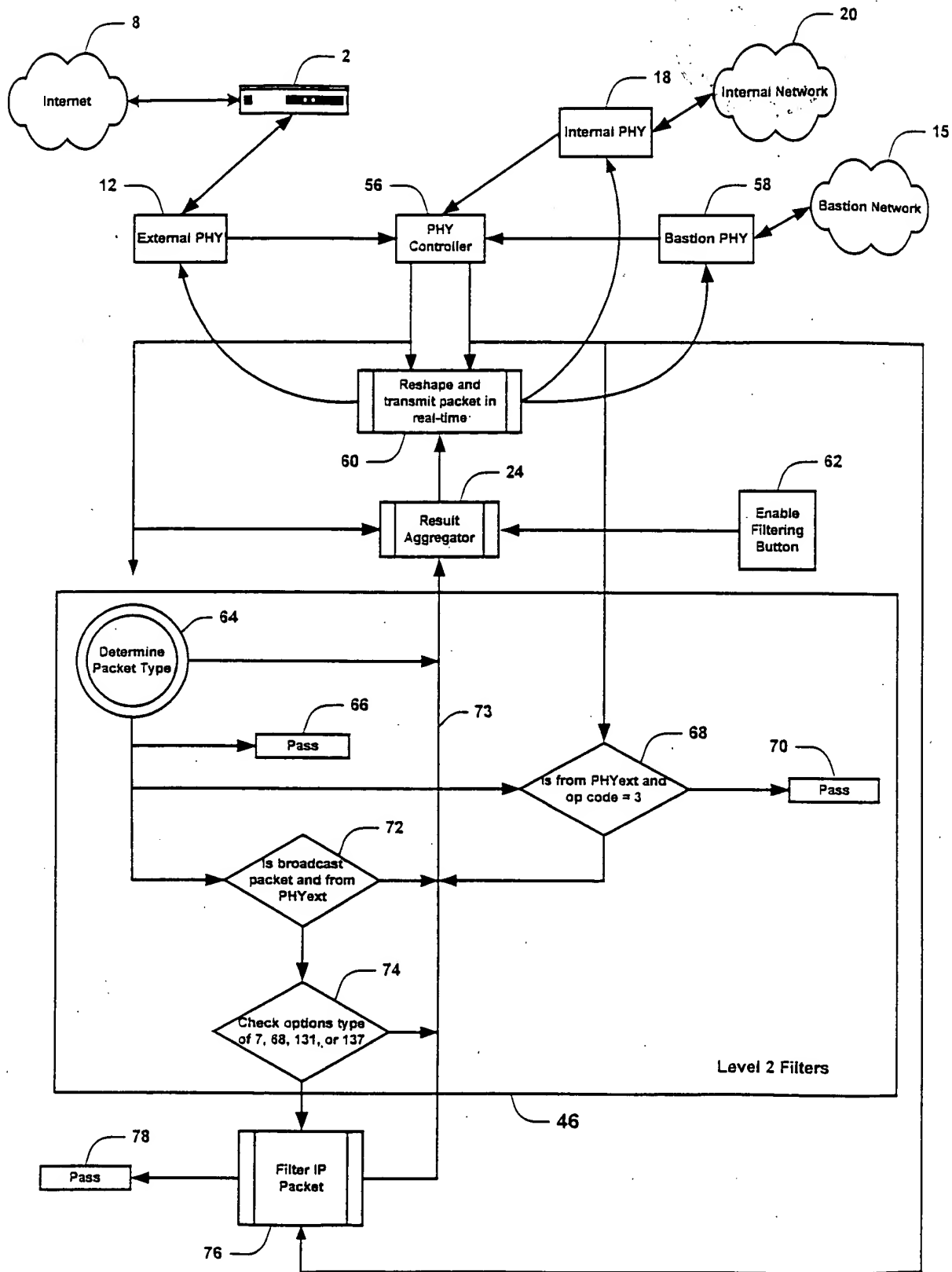
FIG. 1B

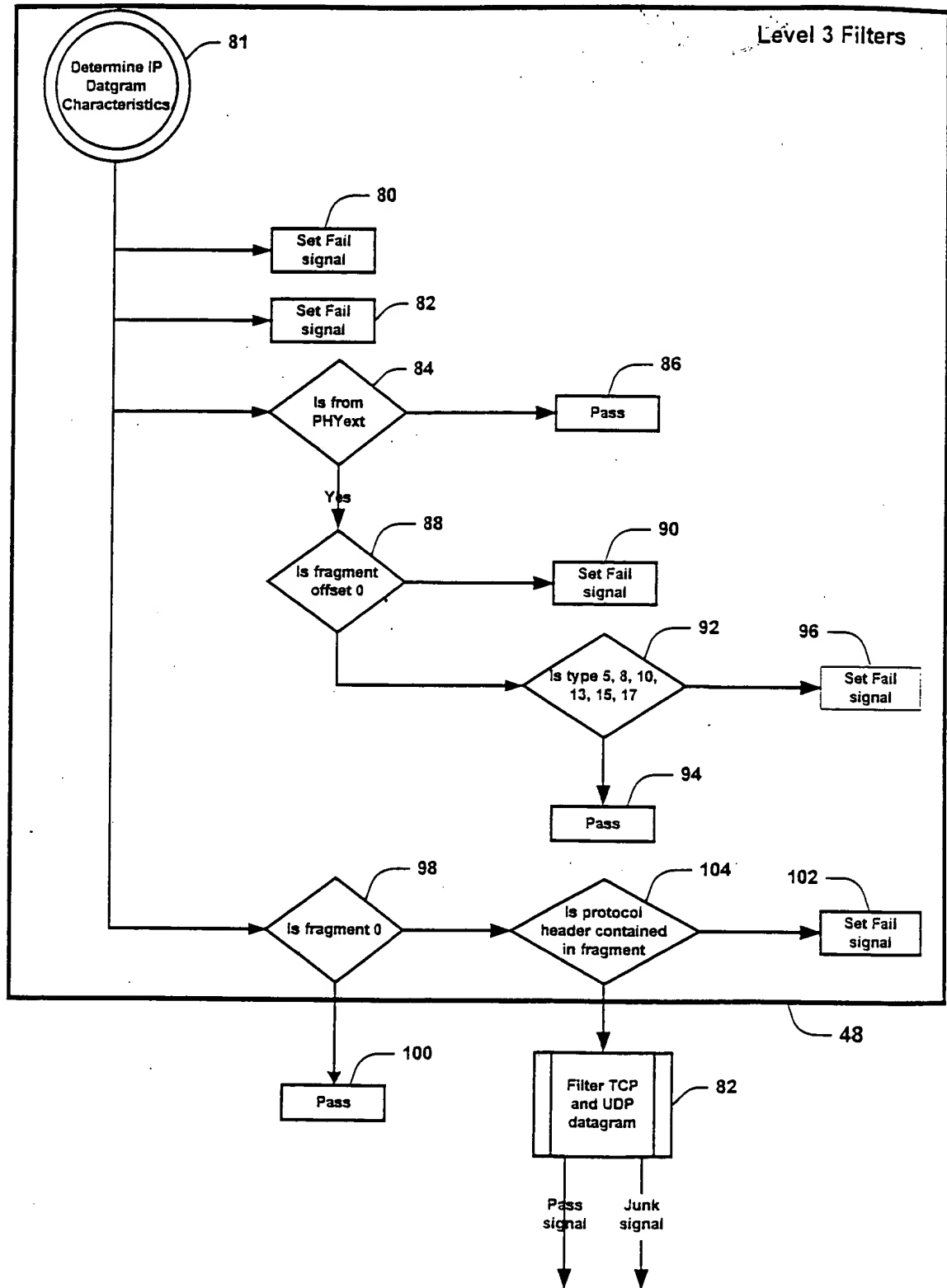


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FIG. 3







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FIG. 6

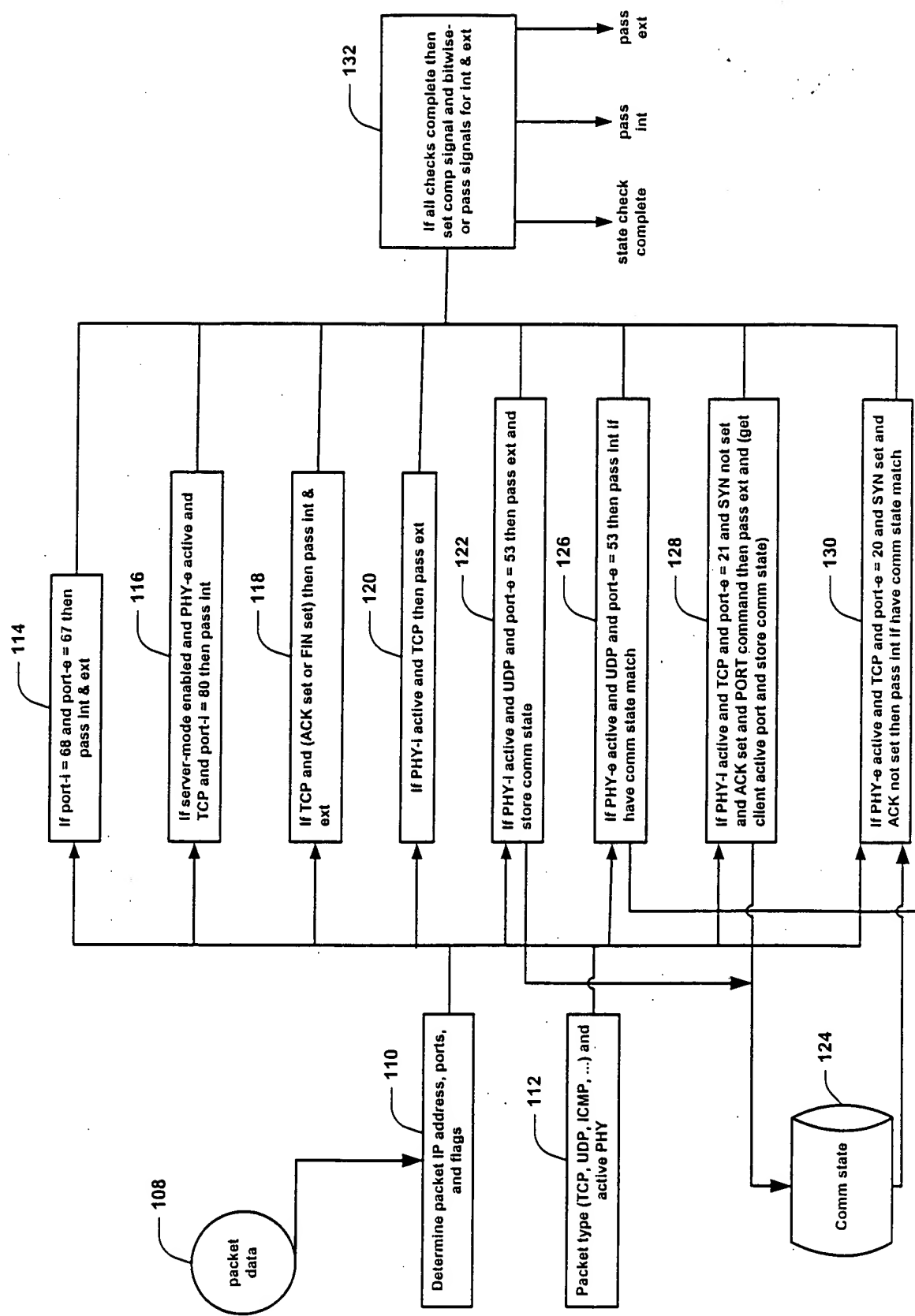
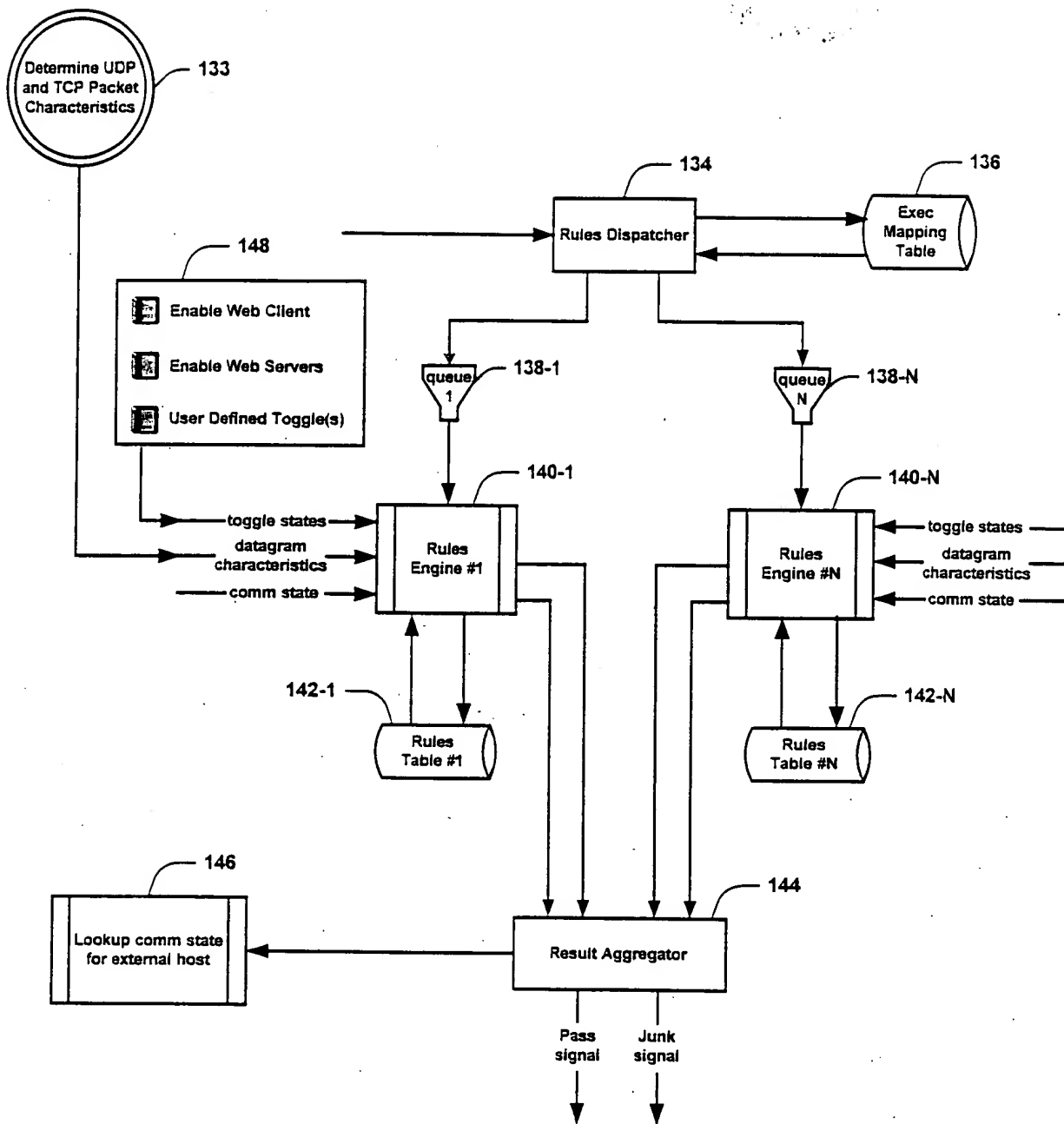


FIG. 6 is a flowchart illustrating a packet processing sequence. The sequence starts with packet data (108) being input to a decision block (110) to determine packet IP address, ports, and flags. This leads to block (112) for packet type (TCP, UDP, ICMP, ...) and active PHY. The process then follows a series of conditional checks: (114) If port-i = 68 and port-e = 67 then pass Int & ext; (116) If server-mode enabled and PHY-e active and TCP and port-i = 80 then pass Int; (118) If TCP and ACK set or FIN set then pass Int & ext; (120) If PHY-i active and TCP then pass ext; (122) If PHY-i active and UDP and port-e = 53 then pass ext and store comm state; (126) If PHY-e active and UDP and port-e = 53 then pass Int if have comm state match; (128) If PHY-i active and TCP and port-e = 21 and SYN not set and ACK set and PORT command then pass ext and get client active port and store comm state; and (130) If PHY-e active and TCP and port-e = 20 and SYN set and ACK not set then pass Int if have comm state match. All successful paths converge at block (132), If all checks complete then set comp signal and bitwise-or pass signals for Int & ext. This final block outputs three signals: state check complete, pass Int, and pass ext.

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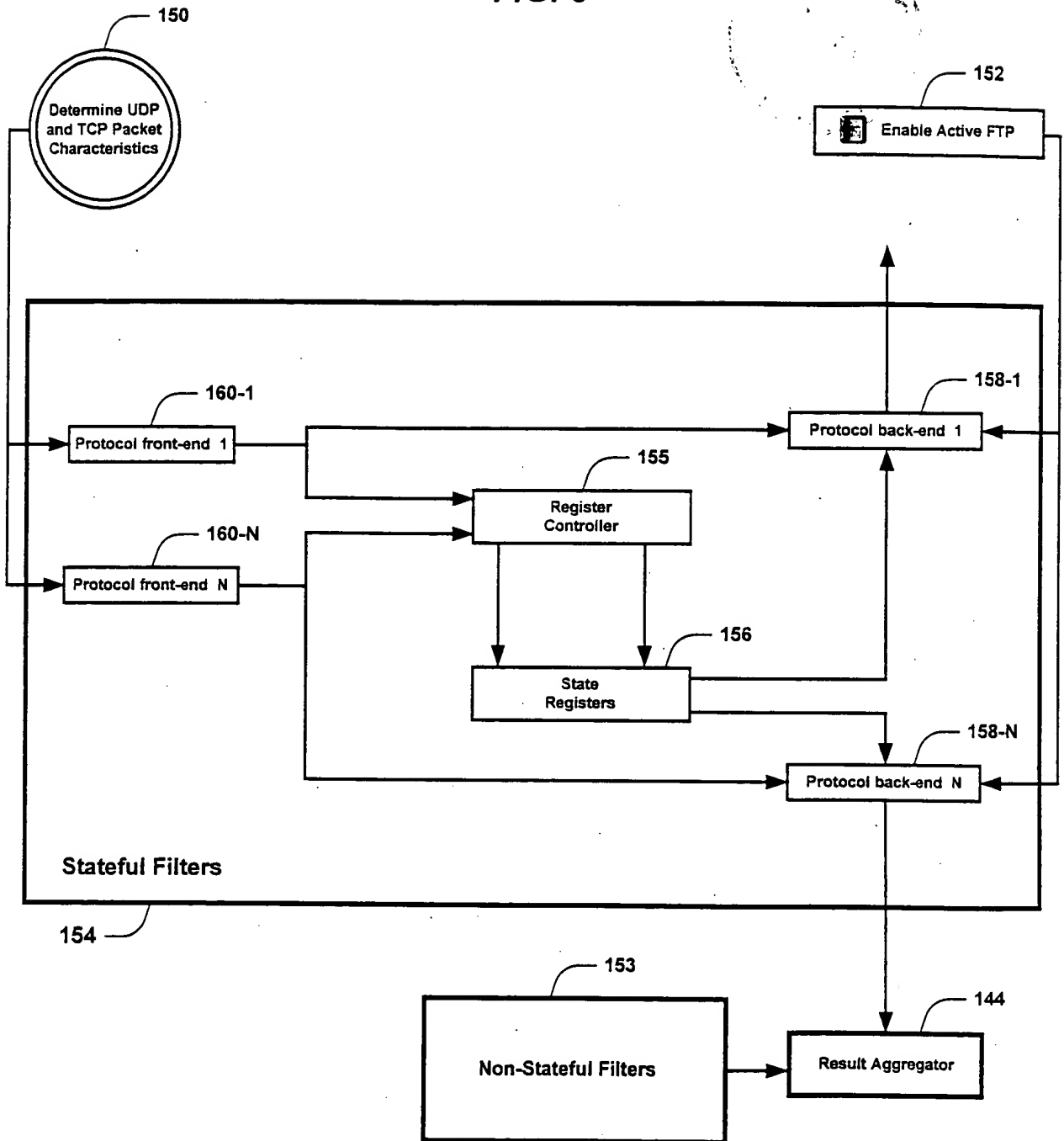
FIG. 7



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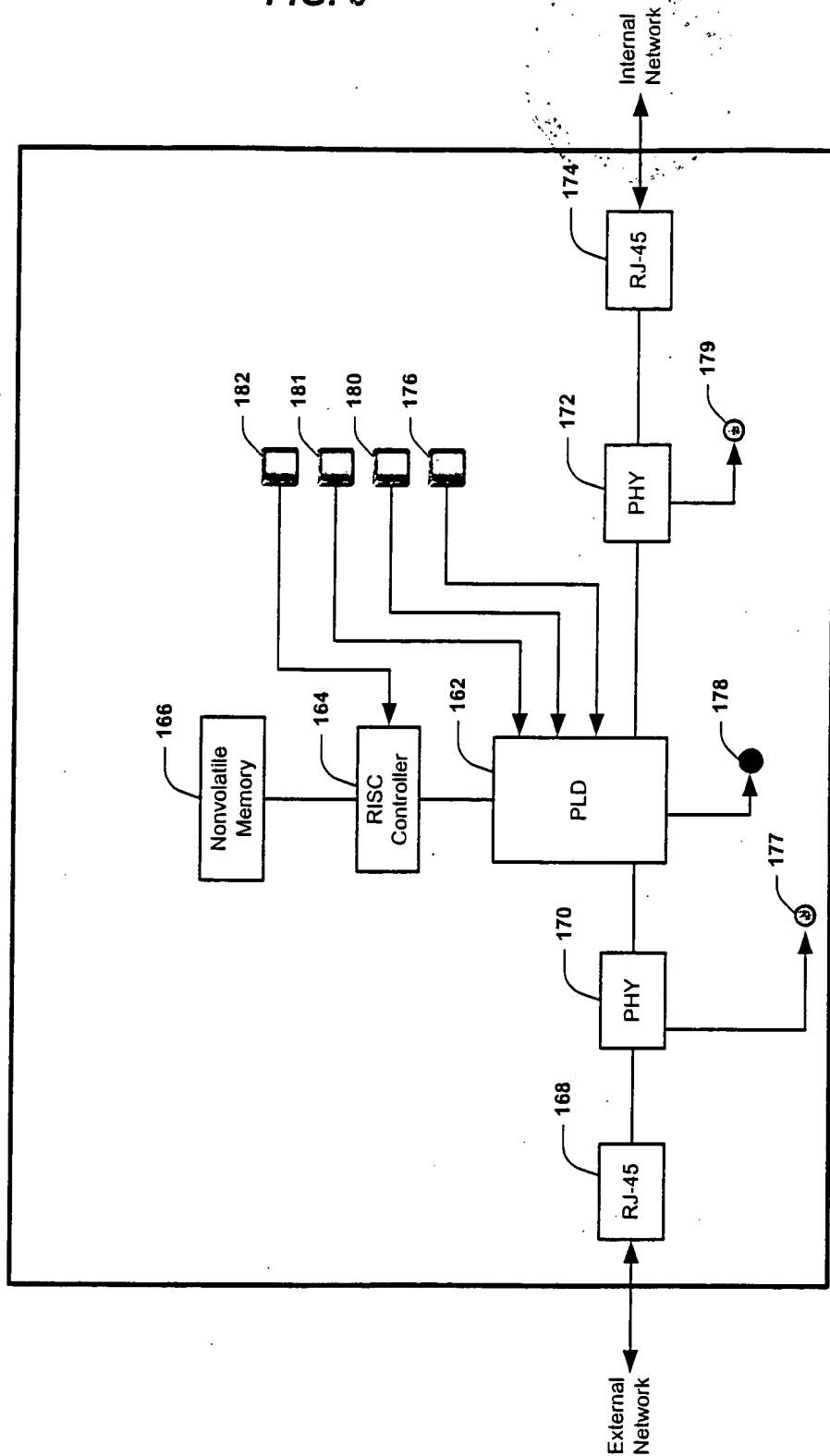
FIG. 8



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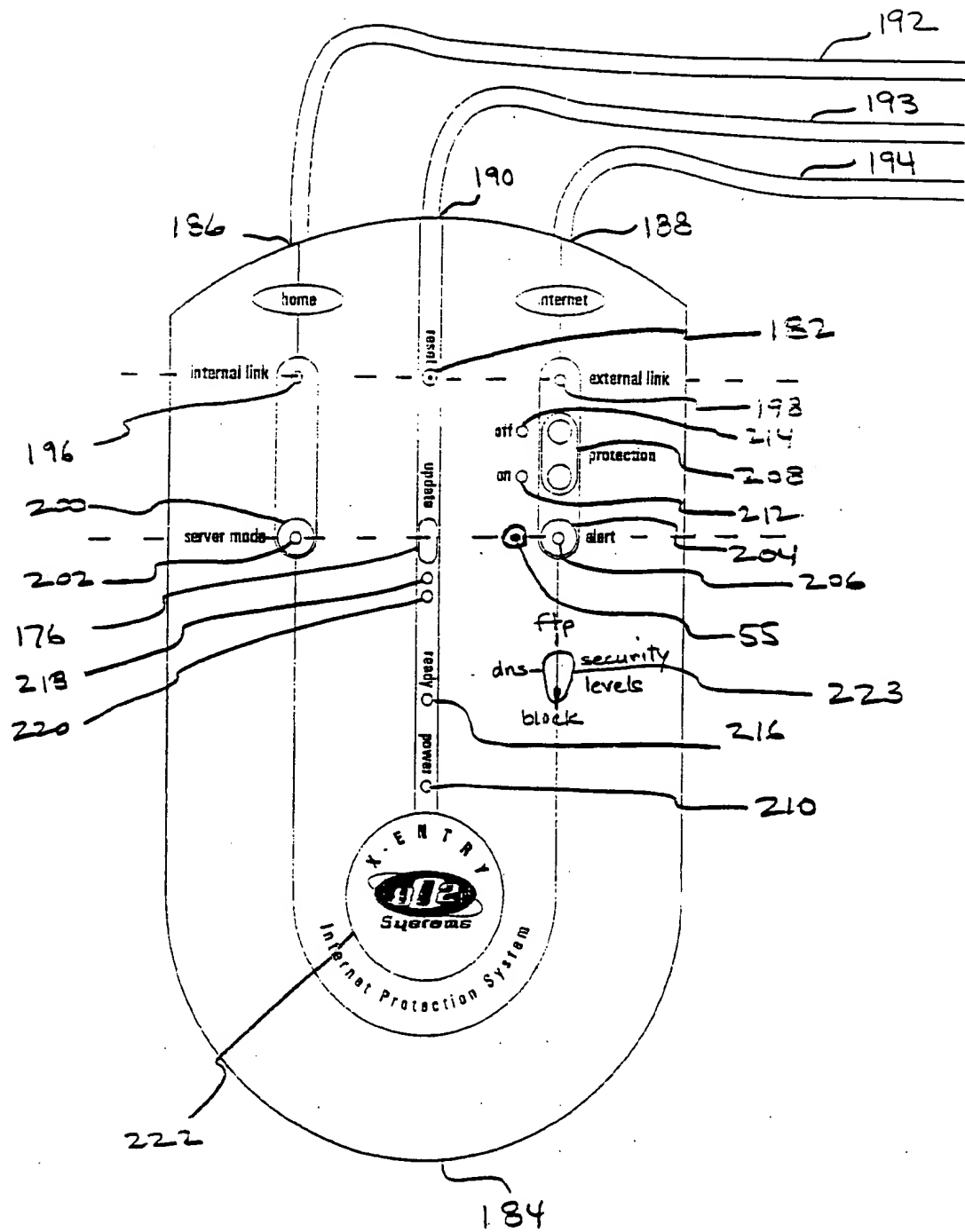
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FIG. 9



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FIG. 10



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FIG. 11

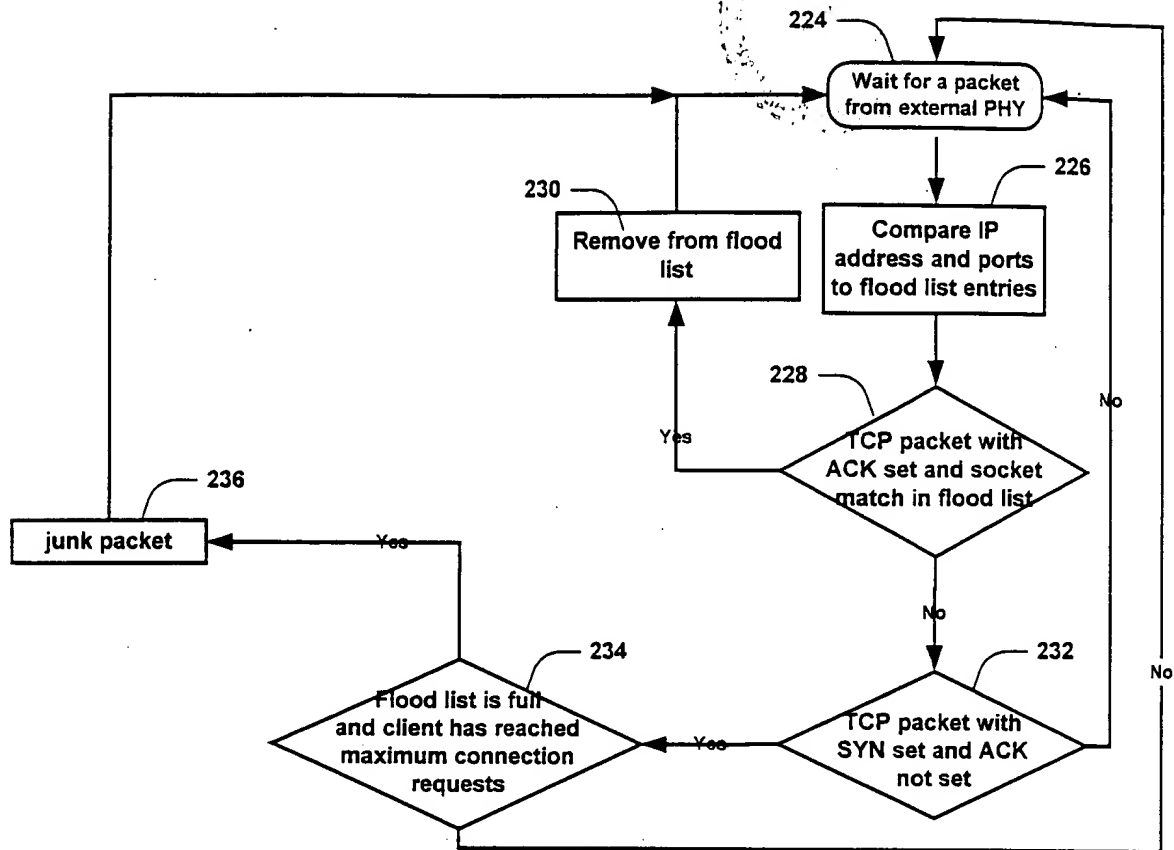


FIG. 12

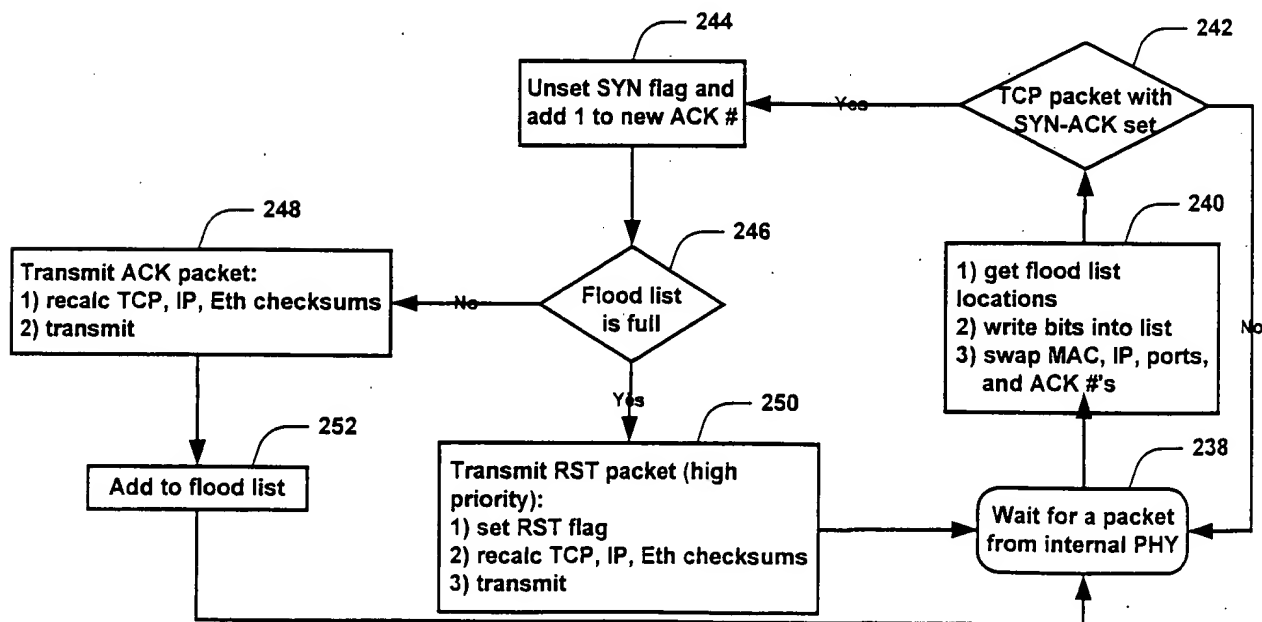
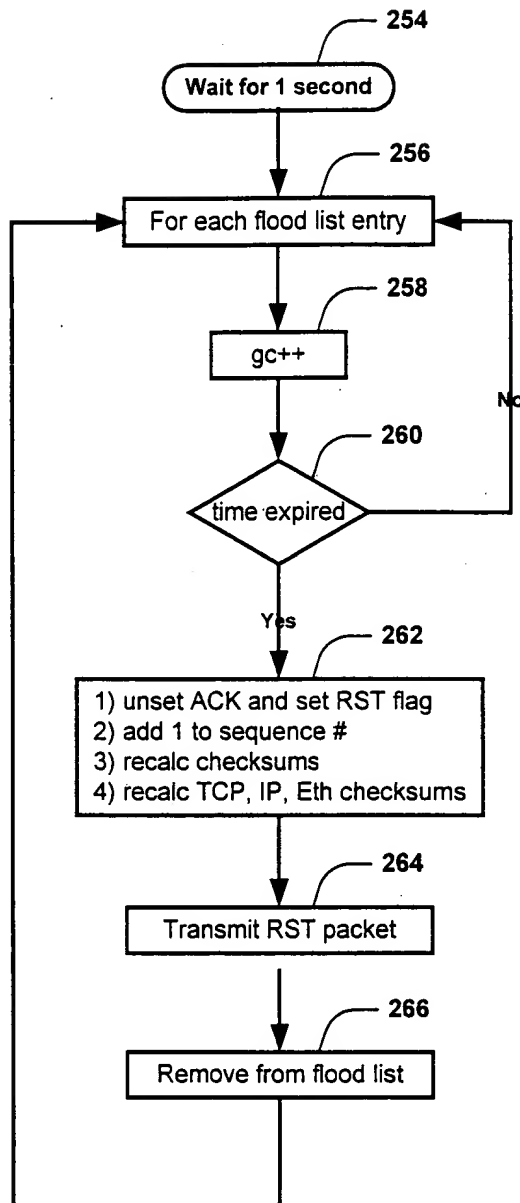


FIG. 13



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FIG. 14

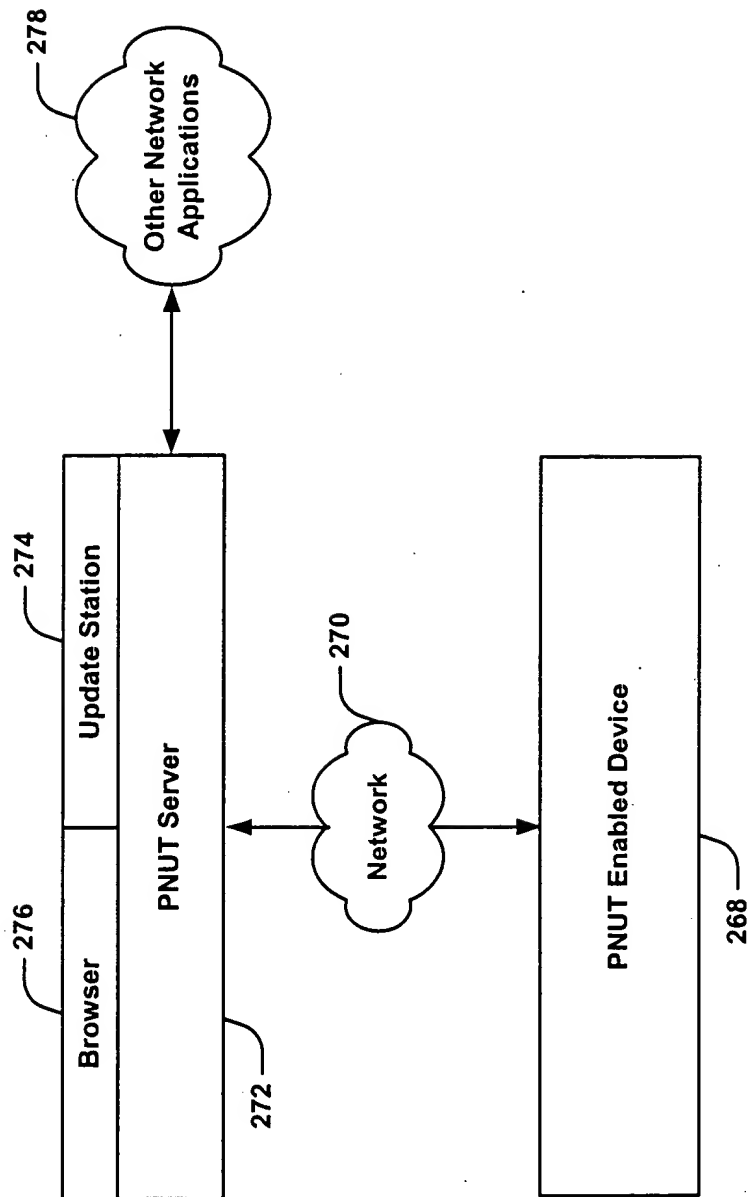
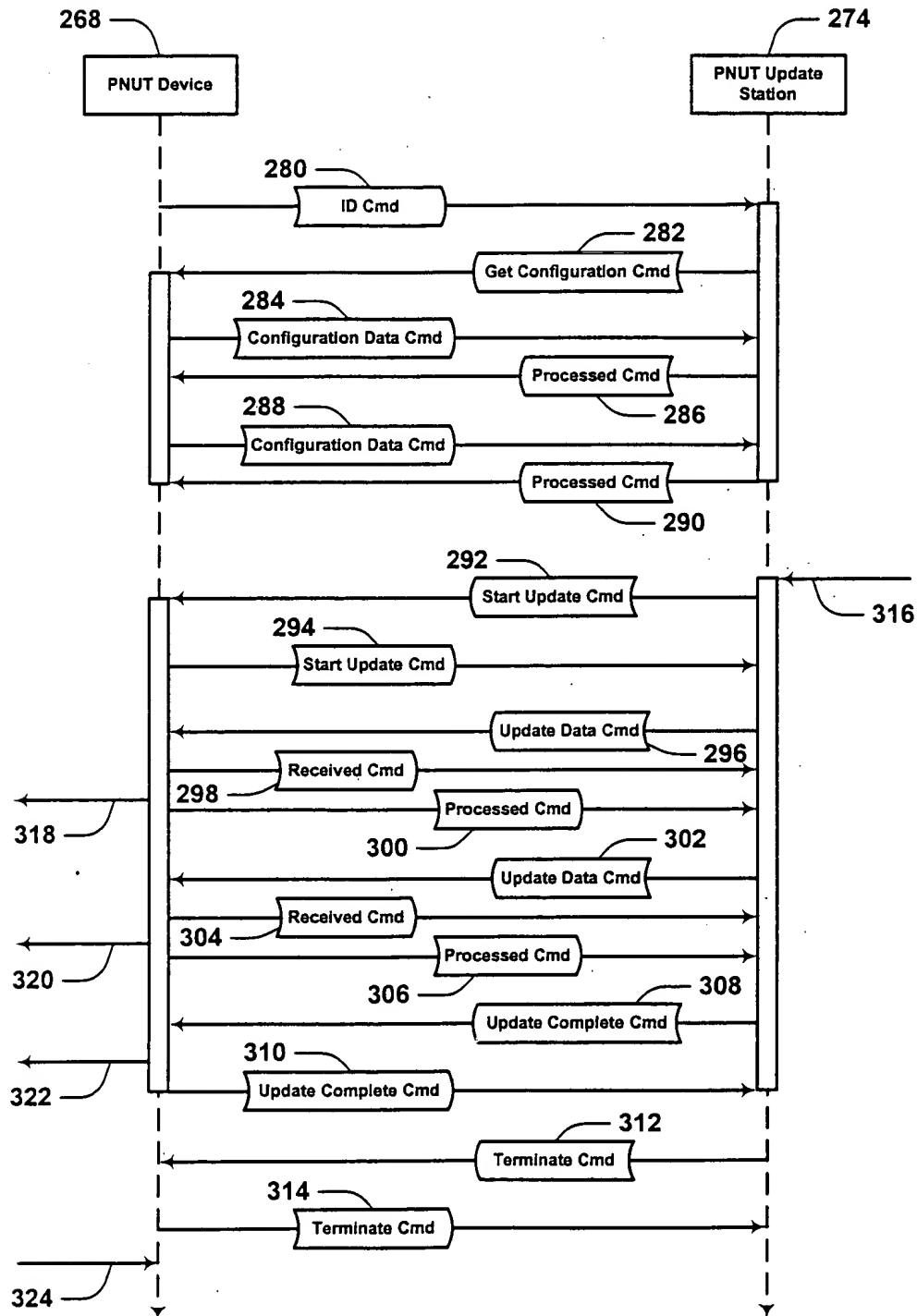
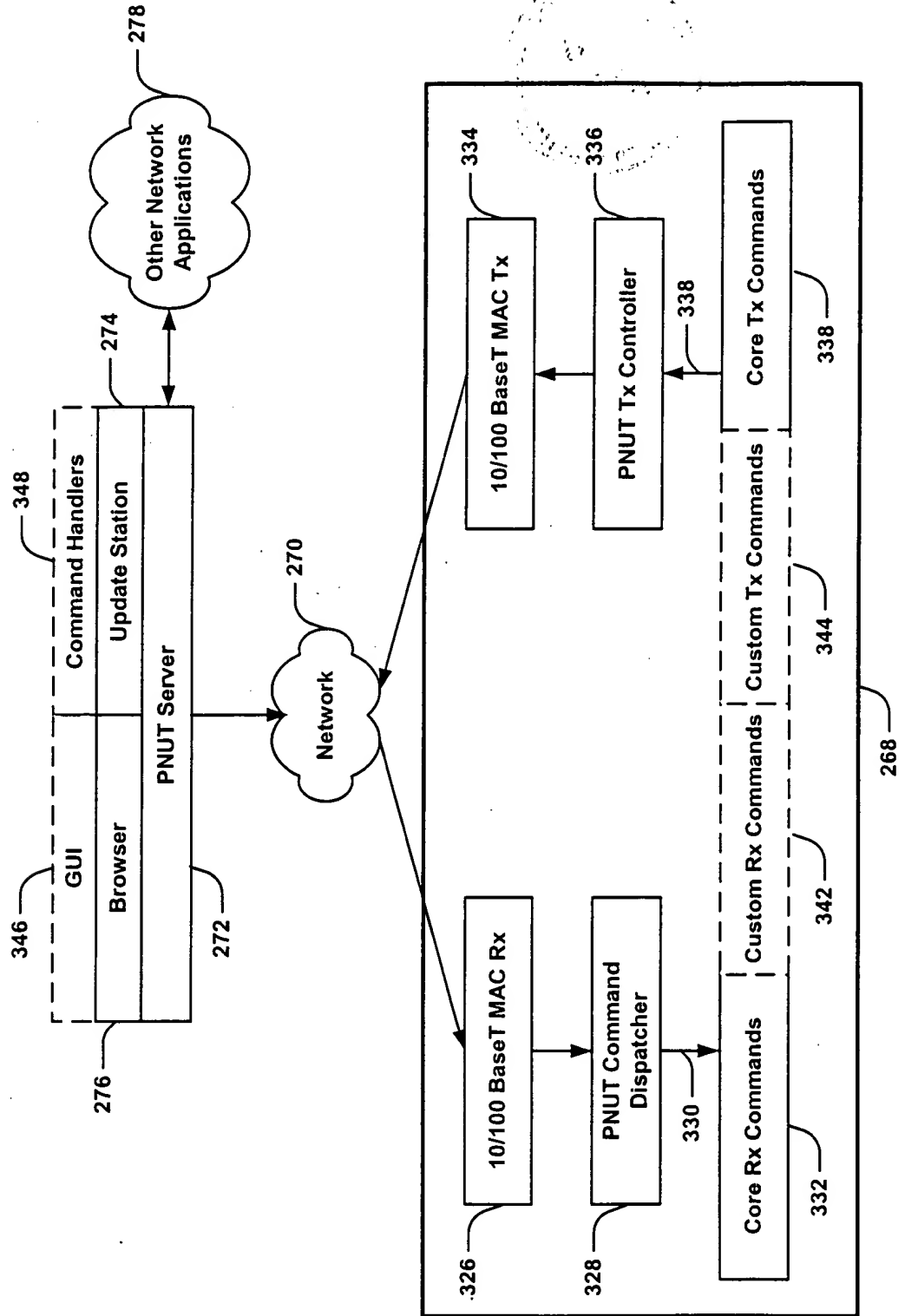


FIG. 15



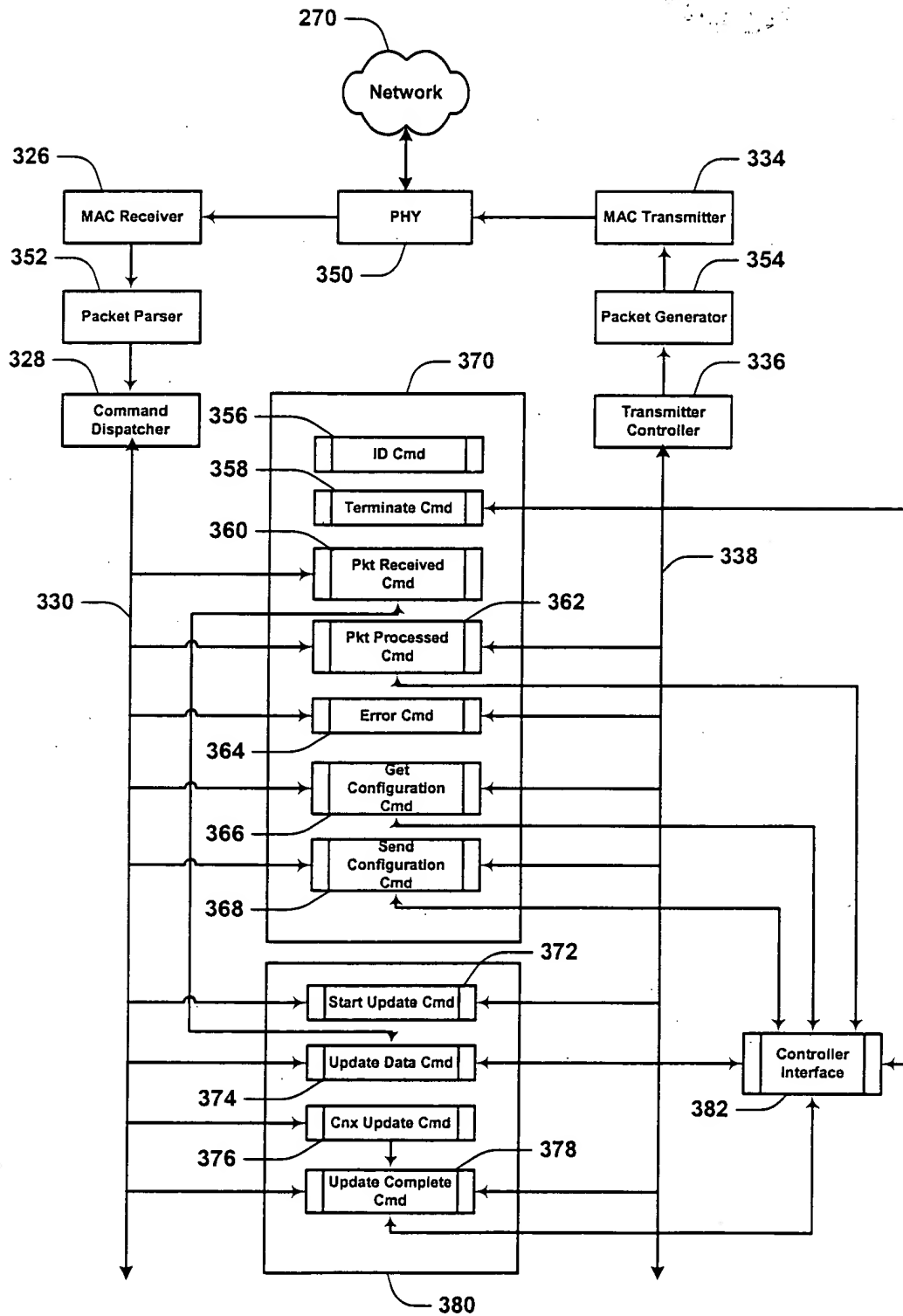
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FIG. 16



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FIG. 17



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FIG. 18

X-Entry Setup - Netscape


File Edit View Go Communicator Help

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Bookmarks Location: file:///firewall/xentry/PNUT/site/INDEX-1.HTM What's Related

Crusader CAM Administrator

X-Entry Setup



390 → 1 Choose X-Entry security options
392 → 2 Generate X-Entry configuration
384 → 3 Place X-Entry into update mode
4 Upgrade X-Entry using new configuration
5 Have fun on the Internet

393 391 } 386

<u>Special Client Services/Protocols</u>	<u>Servers Accessible from Internet</u>
<input type="checkbox"/> DHCP	<input type="checkbox"/> Web Server
<input type="checkbox"/> DNS	<input type="checkbox"/> FTP (File Transfer Protocol)
<input type="checkbox"/> FTP (active mode)	<input type="checkbox"/> SSH (Secure Shell)
<input type="checkbox"/> Native support for streaming media	<input type="checkbox"/> Mail Server
<input type="checkbox"/> IRC (Internet Relay Chat)	<input type="checkbox"/> Telnet
<input type="checkbox"/> NetBUEI	<input type="checkbox"/> Games (Popular tiles)
<input type="checkbox"/> IPX/SPX	<input type="checkbox"/> Gnutella (P-to-P File sharing)

Additional Services

☐ SYN Flood Protection
☐ Denial-of-Service Protection
☐ Spoof Protection
☐ Logging

Submit

Move forward to next document in history list

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FIG. 19

X-Entry Setup - Netscape


File Edit View Go Communicator Help

Back Forward Reload Home Search Netscape Print Security Stop

Bookmarks Location: /firewall/xentry/PNUT/site/upgrade.html?Submit=Submit What's Related

Crusader CAM Administrator

X-Entry Setup



- 1 Choose X-Entry security options
- 2 Generate X-Entry configuration
- 3 Place X-Entry into update mode
- 4 Upgrade X-Entry using new configuration
- 5 Have fun on the Internet

Please press the 'Update' button on the X-Entry BPS.

Waiting for X-Entry

Waiting for user to press 'Update' button

Document Done

FIG. 19

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FIG. 20

X-Entry Setup - Netscape

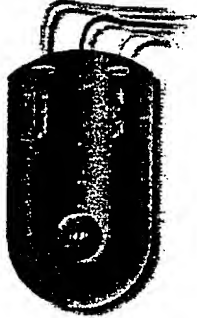
File Edit View Go Communicator Help

Back Forward Reload Home Search Netscape Print Security Stop

Bookmarks Location: //firewall/xentry/PNUT/site/upgrade.html?Submit=Submit What's Related

Crusader CAM Administrator

X-Entry Setup



- 1 Choose X-Entry security options
- 2 Generate X-Entry configuration
- 3 Place X-Entry into update mode
- 4 Upgrade X-Entry using new configuration
- 5 Have fun on the Internet

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408

4107

2.0.D1.98.BF.18

34 % (Attempts = 1)

Update Cancel

416 418 414

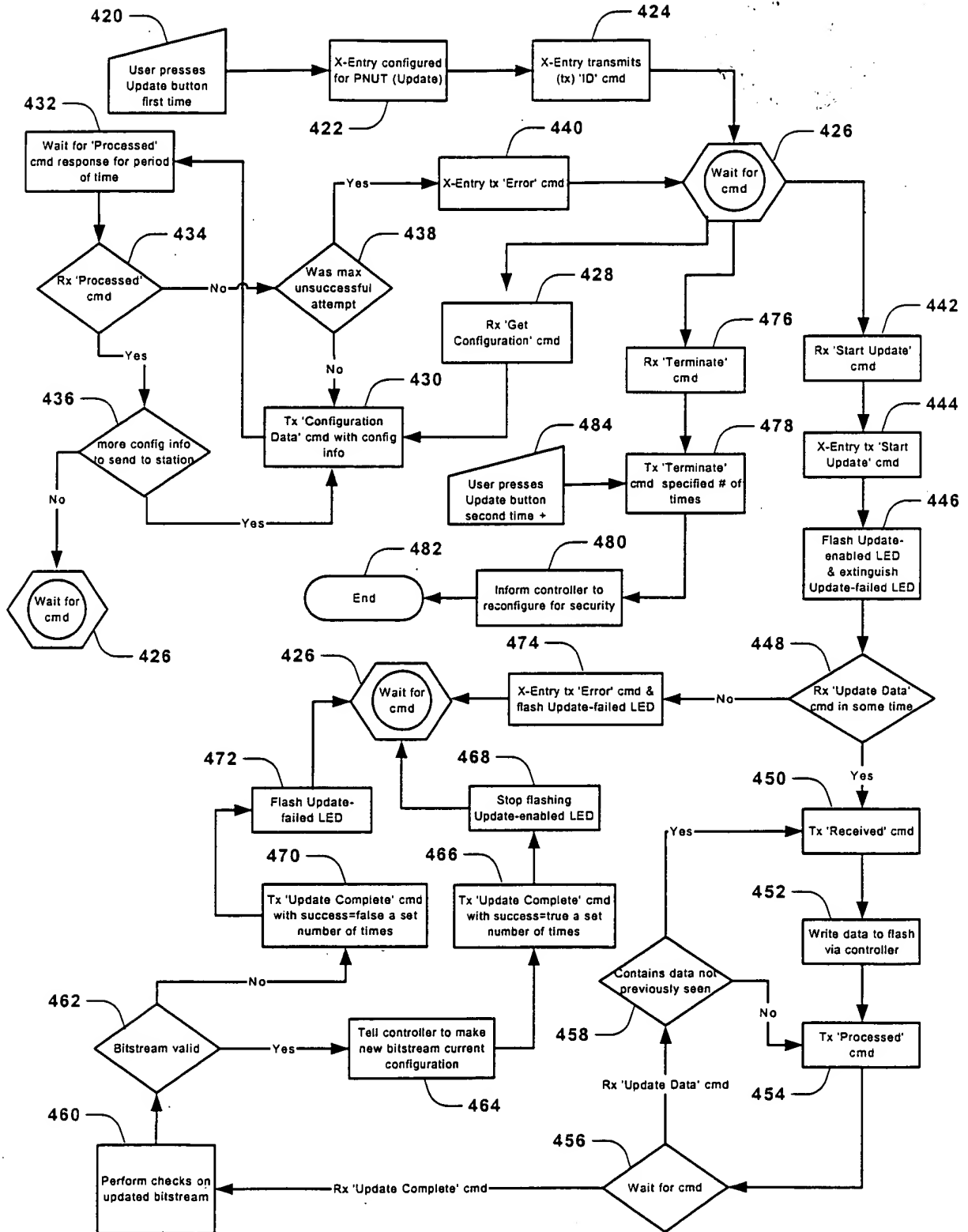
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Upgrading X-Entry box 2.0.D1.98.BF.18

Applet com_802systems.pnut.PnutUpgradeApplet

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FIG. 21



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FIG. 22

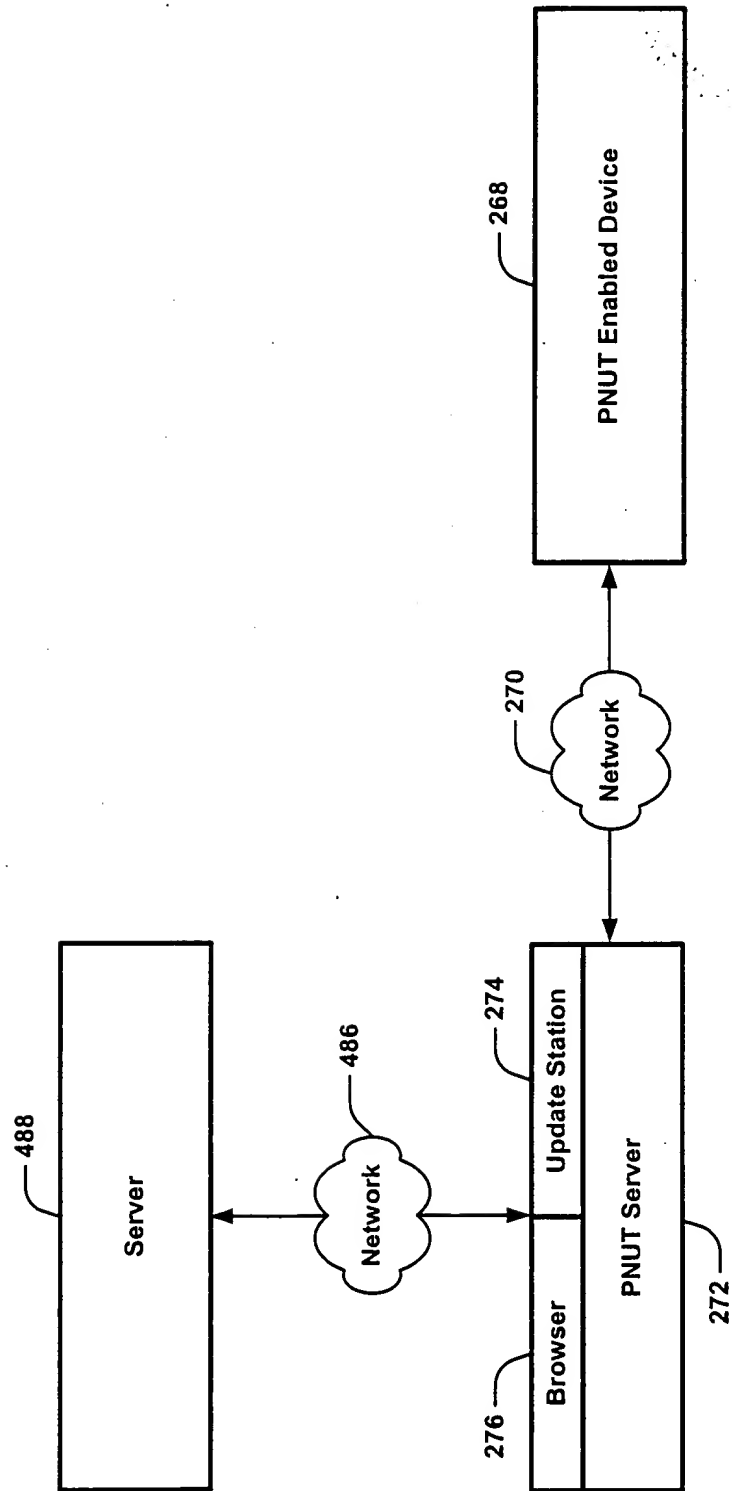


FIG. 23

```

<?xml version="1.0" encoding="UTF-8" ?>
- <formats>
494 - <msg id="128" name="UPDATE_START_CMD">
    <desc>Start Pnut update</desc>
    <byte name="type" transient="true" />
496   <bytes name="checksum" size="2" />
    </msg>
- <msg id="129" name="UPDATE_MSG_CMD">
500   <desc>Pnut data update packet</desc>
    <bytes name="packet number" size="2" />
    <bytes name="length" size="2" transient="true" />
502   <bytes name="data" min_size="1" max_size="500" transient="true"
      max_print="0" />
    </msg>
- <msg id="130" name="UPDATE_LAST_MSG_CMD">
    <desc>Last Pnut update packet</desc>
    <bytes name="packet number" size="2" transient="true" />
512   <pad size="8" />
    </msg>
- <msg id="132" name="UPDATE_CNX_CMD">
    <desc>Cancel Pnut update</desc>
    <pad size="24" />
    </msg>
- <msg id="136" name="UPDATE_COMP_CMD">
    <desc>Pnut update complete</desc>
    <bytes name="status" size="1" transient="true">
514   <status success="0">
    <desc val="0">Successful</desc>
    <desc val="1">Bad packet checksum</desc>
518   <desc val="2">Flash write failure</desc>
    <desc val="3">Update cancelled</desc>
    </status>
    </bytes>
    <pad size="16" />
    </msg>
- </formats>

```

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FIG. 24

